

# Diesel Technology Required Tools List

All students are required to have their own personal tool set from the following list to use for classroom/lab projects prior to the beginning of the semester. Estimated tool cost: \$4,400.

WITCC does not recommend a particular vendor; the College only suggests that you purchase commercial-quality tools. For more information, please feel free to contact:



Red Dwyer

712-274-8733, Ext. 1204

dwyerl@witcc.edu

## Tool Box:

- ☐ Roll Cabinet (40" width max) - top box is optional !! NO EXCEPTIONS !!

## Safety Items:

- ☐ OSHA Safety Glasses

## 1/4" Drive Socket Set:

- ☐ 3/16" Socket size
- ☐ 1/4" Socket size
- ☐ 5/16" Socket size
- ☐ 3/8" Socket size
- ☐ 7/16" Socket size
- ☐ 1/2" Socket size
- ☐ 9/16" Socket size
- ☐ Ratchet
- ☐ Universal Joint
- ☐ 2 extensions
- ☐ Screw driver handle driver

## 3/8" Drive Socket Set:

- ☐ 7/16" Std Socket 12pt.
- ☐ 1/2" Std Socket 12pt
- ☐ 9/16" Std Socket 12pt
- ☐ 5/8" Std Socket 12pt
- ☐ 11/16" Std Socket 12pt
- ☐ 3/4" Std Socket 12pt
- ☐ 13/16" Std Socket 12pt
- ☐ 7/8" Std Socket 12pt
- ☐ 3/8" Deep well socket 12pt
- ☐ 7/16" Deep well socket 12pt
- ☐ 1/2" Deep well socket 12pt
- ☐ 9/16" Deep well socket 12pt
- ☐ 5/8" Deep well socket 12pt
- ☐ 11/16" Deep well socket 12pt
- ☐ 3/4" Deep well socket 12pt
- ☐ 10mm Metric socket 12pt
- ☐ 11mm Metric socket 12pt
- ☐ 12mm Metric socket 12pt
- ☐ 13mm Metric socket 12pt

- ☐ 14mm Metric socket 12pt
- ☐ 15mm Metric socket 12pt
- ☐ 16mm Metric socket 12pt
- ☐ 17mm Metric socket 12pt
- ☐ 18mm Metric socket 12pt
- ☐ 19mm Metric socket 12pt
- ☐ Universal joint
- ☐ 2 extensions
- ☐ 3/8 to 1/2" Adapter
- ☐ Ratchet (long handle)
- ☐ Breaker bar (long handle)

## 1/2" Drive Socket Set:

- ☐ 7/16" Std Socket 12pt.
- ☐ 1/2" Std Socket 12pt.
- ☐ 9/16" Std Socket 12pt
- ☐ 5/8" Std Socket 12pt.
- ☐ 11/16" Std Socket 12pt.
- ☐ 3/4" Std Socket 12pt.
- ☐ 13/16" Std Socket 12pt
- ☐ 7/8" Std Socket 12pt
- ☐ 15/16" Std Socket 12pt
- ☐ 1" Std Socket 12pt
- ☐ 1 1/16" Std Socket 12pt
- ☐ 1 1/8" Std Socket 12pt
- ☐ 1 1/4" Std Socket 12pt.
- ☐ 3/4" Deepwell 12pt
- ☐ 13/16" Deepwell 12pt
- ☐ 7/8" Deepwell 12pt
- ☐ 15/16" Deepwell 12pt
- ☐ 1" Deepwell 12pt
- ☐ 1 1/16" Deepwell 12pt
- ☐ 1 1/8" Deepwell 12pt
- ☐ 1 1/4" Deepwell 12pt
- ☐ Ratchet (long handle)
- ☐ Breaker bar (long handle)
- ☐ Universal joint
- ☐ 2 extensions
- ☐ 1/2" to 3/8" Adapter
- ☐ 1/2" to 3/4" Adapter

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- ☐ 10mm Std Impact socket 12pt
- ☐ 11mm Std Impact socket 12pt
- ☐ 12mm Std Impact socket 12pt
- ☐ 13mm Std Impact socket 12pt
- ☐ 14mm Std Impact socket 12pt
- ☐ 15mm Std Impact socket 12pt
- ☐ 16mm Std Impact socket 12pt
- ☐ 17mm Std Impact socket 12pt
- ☐ 18mm Std Impact socket 12pt
- ☐ 19mm Std Impact socket 12pt
- ☐ 20mm Std Impact socket 12pt
- ☐ 21mm Std Impact socket 12pt
- ☐ 22mm Std Impact socket 12pt
- ☐ 23mm Std Impact socket 12pt
- ☐ 24mm Std Impact socket 12pt

Combination Wrenches: (Standard Length)

- ☐ 3/8" Wrench
- ☐ 7/16" Wrench
- ☐ 1/2" Wrench
- ☐ 9/16" Wrench
- ☐ 5/8" Wrench
- ☐ 11/16" Wrench
- ☐ 3/4" Wrench
- ☐ 13/16" Wrench
- ☐ 7/8" Wrench
- ☐ 15/16" Wrench
- ☐ 1" Wrench
- ☐ 1-1/16" Wrench
- ☐ 1-1/8" Wrench
- ☐ 10mm Metric size
- ☐ 11mm Metric size
- ☐ 12mm Metric size
- ☐ 13mm Metric size
- ☐ 14mm Metric size
- ☐ 15mm Metric size
- ☐ 16mm Metric size
- ☐ 17mm Metric size
- ☐ 18mm Metric size
- ☐ 19mm Metric size

Allen Wrench Set:

- ☐ Standard assortment through 3/8"
- ☐ Metric assortment

Electrical/Electronics Tools:

- ☐ Fluke 78 Digital Volt-Ohm meter
- ☐ Fluke TLK 220 Lead Set
- ☐ HD Remote starter switch
- ☐ Wire stripper/crimper
- ☐ Test light

Torque Wrenches (Click type)

- ☐ 50 - 250 lb/ft. fixed ratchet 1/2 Drive
- ☐ 20-100 lb/ft. fixed ratchet 3/8 Drive

Hammers:

- ☐ 20 oz. Ball peen hammer
- ☐ 48 oz. Ball peen hammer
- ☐ 48 oz. Dead blow hammer

Screwdriver Set:

- ☐ Flat tip - stubby, (2")
- ☐ Flat tip - 4"
- ☐ Flat tip - 6"
- ☐ Flat tip - 8"
- ☐ Phillips - #1 6" long
- ☐ Phillips - #2 stubby (2")
- ☐ Phillips - #2 6" long
- ☐ Phillips - #3 8" long

Pliers Set:

- ☐ 6" Combination
- ☐ 10" Slip joint (water pump)
- ☐ Large slip joint (water pump)
- ☐ Needle nose
- ☐ Diagonal cutter
- ☐ 10" vise grip

Miscellaneous Tools:

- ☐ Angle blade feeler gauge set .0015 through .035" (long blade)
- ☐ Flat blade feeler gauge set .0015 through .035" (std. blade)
- ☐ Hacksaw 12"
- ☐ Roll head pry bar 16"
- ☐ Standard pry bar 24"
- ☐ O-ring pick
- ☐ Gasket scraper 1"
- ☐ Flex head mechanics mirror
- ☐ Punch and chisel set
- ☐ Magnetic pick-up tool (flexible)
- ☐ 12" adjustable wrench
- ☐ Blow gun (OSHA approved)
- ☐ Truck tire inflation chuck (straight head)
- ☐ Truck tire air pressure gauge (straight head)
- ☐ 6 Long style Lincoln Male air couplings
- ☐ Tape measure
- ☐ Torx socket set (sockets only)
- ☐ Torx socket driver set (drivers only)
- ☐ 12 pc. Snap ring set
- ☐ 1/2" HD punch
- ☐ Utility knife

**Updated Dec., 2007**